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IN THE CLAIMS:

1. (Cancelled)

2. (Currently Amended) An omnidirectional visual camera comprising:

a reflecting member including comprising:

a ~~rotating~~ rotationally symmetric surface portion having comprising a convex surface of a ~~rotating~~ secondary rotationally symmetric curved surface,

a cylindrical portion having a ~~cylindrical shape~~ walls surrounding said rotationally symmetric surface portion and having a ~~rotating~~ center cylindrical axis of rotation substantially virtually aligning with a ~~rotating~~ an axis of rotation of said rotationally symmetric ~~rotating~~ surface, and having a cylindrical inner diameter larger than an outer diameter of said rotationally symmetric ~~rotating~~ surface portion, and

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a connection section for connecting one longitudinal end of said cylindrical portion and with the outer diameter portion of said rotationally symmetricretating surface portion;

said rotationally symmetricretating surface portion, said cylindrical portion, and said connection section being integrally molded of a transparent material,

~~the projecting surface of said~~ rotationally symmetricretating surface portion being processed into comprising a mirror surface; and

a camera having an optical axis substantially aligning with the ~~retating center-axis~~ rotation of said reflecting member and installed opposite to the convex surface of said rotationally symmetricretating surface portion,

said camera located for picking up a reflected image reflected from the convex surface of the rotationally symmetricretating surface portion of said reflecting member.

3.-4. (Cancelled)

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5. (Currently Amended) The omnidirectional visual camera according to Claim 12, wherein one end surface of the cylindrical portion to which the rotationally symmetric rotating surface portion is connected has a smaller diameter than the other end thereof.